OCT 0 2 2006	` 10	ith applicable	fee(s), to: <u>N</u> O 6 or	P.O. Box 1450 Alexandria, Vii Fax (571)-273-2885	ginia 22313-1450	867082US <del>-</del>
appropriate A direction appropriate the corrected limits corrected limits and interest corrected	respondence including the I below or directed otherwise	smitting the ISSU atent, advance of in Block I, by (a	rders and notif a) specifying a	OBLICATION FEE (if re- ication of maintenance fees new correspondence addre	quired). Blocks 1 through 5 will be mailed to the curren ss; and/or (b) indicating a ser	should be completed where t correspondence address as parate "FEE ADDRESS" for
CURRENT CORRESPONDENC	E ADDRESS (Note: Use Block 1 for a 190 06/30/2006	ny change of address)		ree(s) Transmittal.	of mailing can only be used in this certificate cannot be used nal paper, such as an assignmente of mailing or transmission.	for any other accompanying
LAHIVE & COC 28 STATE STREE BOSTON, MA 021 10/05/2006 MBELETE2 00	CKFIELD T 109	94		I hereby certify that States Postal Service addressed to the M transmitted to the US	ertificate of Mailing or Tran this Fee(s) Transmittal is beir with sufficient postage for fi ail Stop ISSUE FEE address SPTO (571) 273-2885, on the	smission ng deposited with the United rst class mail in an envelope s above, or being facsimile date indicated below.
	.00 DA	•			<del></del>	(Depositor's name)
	.00 DA				<del></del>	(Signature)
APPLICATION NO.	FILING DATE		FIRST NAMED	INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/041,994	03/13/1998		J. DON (		UMM-026	4204
APPLN. TYPE	SMALL ENTITY	ISSUE F	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	· · · · · · · · · · · · · · · · · · ·	\$0	\$700	10/02/2006
EXAMINER		ART UNIT CI		CLASS-SUBCLASS		
	CHAEL D	1646	1	435-320100		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.  1 Lahive & Cockfield LI  2 Debra J. Milasincic,			
	RESIDENCE DATA TO B					
PLEASE NOTE: Unless recordation as set forth in	s an assignee is identified be n 37 CFR 3.11. Completion of	low, no assignee of this form is NO	data will appe T a substitute for	ar on the patent. If an assignment.	gnee is identified below, the o	locument has been filed for
(A) NAME OF ASSIGN			(B) RESIDEN	NCE: (CITY and STATE OR Worcester, MA	COUNTRY)	
University	of Massachusett	S		worcester, im		
Please check the appropriate	e assignee category or categor	ries (will not be pr	inted on the pa	tent): 🔲 Individual 🔠	Corporation or other private gr	oup entity Government
4a. The following fee(s) are  ☐ Issue Fee ☐ Publication Fee (No s ☐ Advance Order - # or	small entity discount permitte		Payment b	the amount of the fee(s) is by credit card. Form PTO-20		edit any overpayment, to
a. Applicant claims S	(from status indicated above MALL ENTITY status. See	37 CFR 1.27.	☐ b. Applica	nt is no longer claiming SM.	ALL ENTITY status. See 37 C	FR 1.27(g)(2).
The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the reco	is requested to apply the Issu ublication/Fee (if required) words of the United States Pate	e Fee and Publica all not be accepted to and Trademark	tion Fee (if any d from anyone Office.	) or to re-apply any previou other than the applicant; a re	sly paid issue fee to the applications gistered attorney or agent; or t	ation identified above. he assignee or other party in

Esq

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

46,931

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Debra J. Milasincic, Esq.

Authorized Signature

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PTO/SB/17 (07-06) Approved for use through 01/31/2007. OMB 0651-0032

Effective on 120020004 FREE TRANSMITTAL FOR FY 2005    X   Applicant claims small entity status. See 37 CFR 1.27   Application Number   09/041,994   Filing Date   March 13, 1998   Filing Date   March 14, 1998   Filing Date   March 14, 1998   Filing	Adulting the Paperwork Reduction Act of 1995, no person are required to	U.S. Patent and Trader	mark Office; U.S. DEP Ition unless it displays	ARTMENT OF COMMERCE a valid OMB control number		
FEE TRANSMITTAL  FOR TY 2005    Applicant claims small entity status. See 37 CFR 1.27   At Unit 1646   TOTAL AMOUNT OF PAYMENT (\$) 730.00   Attorney Docket No.   UMM-026   MOREY Order   None   Other (please identify):   Check   Credit Card   Money Order   None   Other (please identify):   Check   Credit Card   Money Order   None   Other (please identify):   Check   Credit Card   Money Order   None   Other (please identify):   Charge fee(s) indicated below   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below   Charge fee(s) or underpayment of   (check all that apply)     Charge fee(s) indicated below   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below, except for the filing fee   Charge fee(s) indicated below   Charge fee(s)   Charge fee(s)   Charge fee(s)   Charge fee(s)	all					
FIST FOR FY 2005    X   Applicant claims small entity status. See 37 CFR 1.27   Art Unit   1646     TOTAL AMOUNT OF PAYMENT   (\$) 730.00   Attomey Docket No.   UMM-026		Application Number	*			
FIST FOR FY 2005    X   Applicant claims small entity status. See 37 CFR 1.27   Art Unit   1646     TOTAL AMOUNT OF PAYMENT   (\$) 730.00   Attomey Docket No.   UMM-026	FFF TRANSMITTAL	Filing Date				
Application Type Fee (s) Fee (		First Named Inventor	J. Don Chen			
Matches   Matc	FOFFY 2005	Examiner Name	Pak, Michael D			
Check   Credit Card   Money Order   None   Other (please identify):	X Applicant claims small entity status. See 37 CFR 1.27	Art Unit	1646			
Check	TOTAL AMOUNT OF PAYMENT (\$) 730.00	Attorney Docket No.	UMM-026			
X   Deposit Account   Deposit Account Number   12-0080   Deposit Account Name   Lahive & Cockfield, LLP	METHOD OF PAYMENT (check all that apply)					
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)    Charge fee(s) indicated below   Charge fee(s) indicated below, except for the filing fee	Check Credit Card Money Order No	ne Other (please ide	ntify):			
Charge fee(s) indicated below	x Deposit Account Deposit Account Number: 12-0080 Deposit Ac	count Name: La	ahive & Cockfield	d, LLP		
Charge fee(s) indicated below	For the above-identified deposit account, the Director is	s hereby authorized to: (che	eck all that apply)			
Telegis   under 37 CFR 1.16 and 1.17		<u> </u>		cept for the filing fee		
Telephone   Tele		x Credit any over	payments			
Search   S						
Application Type		<del></del>				
Provisional	· · · · · · · · · · · · · · · · · · ·	ARCH FEES EXAM	NATION FEES			
Utility   300   150   500   250   200   100				Food Doirt (ft)		
Design   200   100   100   50   130   65	l ————————————————————————————————————			rees Paid (\$)		
Plant   200   100   300   150   160   80	•					
Reissue 300 150 500 250 600 300  Provisional 200 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_					
Provisional   200   100   0   0   0   0   0   0   0						
2. EXCESS CLAIM FEES  Fee (\$)   Fee (\$)   Fee (\$)   Each claim over 20 (including Reissues)   50   25   Each independent claim over 3 (including Reissues)   200   100   Multiple dependent claims   Fee (\$)   Fee Paid (\$)   Multiple Dependent Claims    Total Claims   Extra Claims   Fee (\$)   Fee Paid (\$)   Multiple Dependent Claims    -20 =						
Fee (\$)   Fee (\$)   Fee (\$)		0 0	U			
Each claim over 20 (including Reissues)  Each lindependent claim over 3 (including Reissues)  Each independent claims  Total Claims  Extra Claims  Fee (\$)  Fee Paid (\$)  HP = highest number of total claims paid for, if greater than 20.  Indep. Claims  Extra Claims  Fee (\$)  Fee Paid (\$)  HP = highest number of independent claims paid for, if greater than 20.  Indep. Claims  Extra Claims  Fee (\$)  Fee Paid (\$)  Fee Paid (\$)  APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof  (round up to a whole number) x  Fee Paid (\$)  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof  Fee (\$)  Fee Paid (\$)  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof  Fee (\$)  Fee Paid (\$)						
Each independent claim over 3 (including Reissues)  Multiple dependent claims  Total Claims  Extra Claims  Extra Claims  Fee (\$)  Fee Paid (\$)  Multiple Dependent Claims  Fee (\$)  Fee Paid (\$)  HP = highest number of total claims paid for, if greater than 20.  Indep. Claims  Extra Claims  Fee (\$)  Fee Paid (\$)  Fee Paid (\$)  HP = highest number of independent claims paid for, if greater than 3.  3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof  -100  /50  (round up to a whole number) x  Fee Paid (\$)  Non/English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):    Pee Paid (\$)						
Multiple dependent claims  Total Claims  Extra Claims  Fee (\$)  Fee Paid (\$)  Multiple Dependent Claims  Fee (\$)  Fee Paid (\$)  HP = highest number of total claims paid for, if greater than 20.  Indep. Claims  Extra Claims  Fee (\$)  Fee Paid (\$)  HP = highest number of independent claims paid for, if greater than 3.  3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$2.50 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof round up to a whole number) x  Fee Paid (\$)  Non/English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):  Bubbli TED BY  Signature  Registration No. (Altorney/Regeat)  A6,931 Telephone (617) 227-7400	` ,					
Total Claims   Extra Claims   Fee (\$)   Fee Paid (\$)   Multiple Dependent Claims	•					
HP = highest number of total claims paid for, if greater than 20.  Indep. Claims	Total Claims Extra Claims Fee (\$) Fee	Paid (\$)	Multiple Depende	nt Claims		
Indep. Claims   Extra Claims   Fee (\$)   Fee Paid (\$)    -3		<del></del>	_			
HP = highest number of independent claims paid for, if greater than 3.  3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)  -100 / (round up to a whole number) x =   4. OTHER FEE(S) Fees Paid (\$)  Non-English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge): 2501 Utility issue fee 8001 Printed copy of patent w/o color 30.00  SUBMITTED BY  Registration No. (Attorney/Agest) 46,931 Telephone (617) 227-7400	HP = highest number of total claims paid for, if greater than 20.					
HP = highest number of independent claims paid for, if greater than 3.  3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof  Fee (\$)  Fee Paid (\$)  Non/English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):  Submitted by  Registration No. (Attorney/Reget)  Telephone  (617) 227-7400		Paid (\$)				
3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof  (round up to a whole number) x  Fee Paid (\$)  Non/English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):  Description  Registration No. (Attorney/Reget)  Telephone  Telephone  (617) 227-7400	l ————————————————————————————————————					
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof (round up to a whole number) x  = 4. OTHER FEE(S)  Non-English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):  Tees Paid (\$)  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof (round up to a whole number) x  = 4. OTHER FEE(S)  Non-English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):  Tees Paid (\$)  Total Sheets  Fee (\$)  Fee Paid (\$)  Fees Paid (\$)  Total Sheets  Fee (\$)  Fee Paid (\$)  Fees Paid (\$)  Total Sheets  Fee (\$)  Fee (\$)  Fees Paid (\$)  Total Sheets  Fee (\$)  Fees (\$)	•	<del></del>	<del></del>			
listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets	O. A. I EIGATION GIZZ I ZZ	(excluding electronically	filed sequence or	computer		
Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)  4. OTHER FEE(S) Fees Paid (\$)  Non-English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge): 2501 Utility issue fee 700.00  8001 Printed copy of patent w/o color 30.00  SUBMITTED BY  Signature Registration No. (Attorney/Agest) 46,931 Telephone (617) 227-7400	listings under 37 CFR 1.52(e)), the application size fee d	ie is \$250 (\$125 for small				
4. OTHER FEE(S)  Non/English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):  SUBMITTED BY  Signature  Pees Paid (\$)  Fees Paid (\$)  700.00  30.00  Registration No. (Attorney/Agest)  A6,931 Telephone (617) 227-7400	sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and	37 CFR 1.16(s).				
4. OTHER FEE(S)  Non/English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge): 2501 Utility issue fee 700.00  8001 Printed copy of patent w/o color 30.00  SUBMITTED BY  Signature Registration No. (Attorney/Agent) 46,931 Telephone (617) 227-7400				Fee Paid (\$)		
Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge):  2501 Utility issue fee 700.00 8001 Printed copy of patent w/o color 30.00  SUBMITTED BY Signature Registration No. (Attorney/Agent) 46,931 Telephone (617) 227-7400						
Other (e.g., late filing surcharge): 2501 Utility issue fee 700.00 8001 Printed copy of patent w/o color 30.00  SUBMITTED BY / Registration No. (Attorney/Agent) 46,931 Telephone (617) 227-7400						
SUBMITTED BY Signature  Registration No. (Attorney/Agent) / 46,931 Telephone (617) 227-7400	Non-English Specification, \$130 fee (no small entity disc	700.00				
Signature Registration No. (Attorney/Agest) 46,931 Telephone (617) 227-7400	Other (e.g., late filing surcharge): 8001 Printed copy of					
Signature Registration No. (Attorney/Agest) 46,931 Telephone (617) 227-7400	SUBMITTED BY /					
	Signature	Registration No. / 46,93°	Telephone	(617) 227-7400		
	Name (Printrype) Debra J. Milasincic, Esq.		Date	October 2, 2006		

PTO/SB/21 (07-06)

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## **TRANSMITTAL FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

**Application Number** 09/041,994 Filing Date March 13, 1998 First Named Inventor J. Don Chen Art Unit 1646 Examiner Name Pak, Michael D. Attorney Docket Number UMM-026

ENCLOSURES (Check all that apply)					
X Fee Transmittal Form	Drawing(s)	After Allowance Communication to TC			
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences			
Amendment/Reply	Petition	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)			
After Final	Petition to Convert to a Provisional Application	Proprietary Information			
Affidavits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter			
Extension of Time Request	Terminal Disclaimer	X Other Enclosure(s) (please Identify below):			
Express Abandonment Request	Request for Refund	Return Receipt Postcard			
Information Disclosure Statement	CD, Number of CD(s)				
Certified Copy of Priority Document(s)	Landscape Table on CD				
Reply to Missing Parts/ Incomplete Application	Remarks				
Reply to Missing Parts under 37 CFR 1.52 or 1.53					
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT					
Firm Name LAHIVE & COCKFII	LAHIVE & COCKFIELD, ULP				
Signature					
Printed name Debra J. Milasincic, Esq.					
Date October 2, 2006	Reg. No.	46,931			

Express Mail Label No	EV553867082US	Dated: October 2, 2006		
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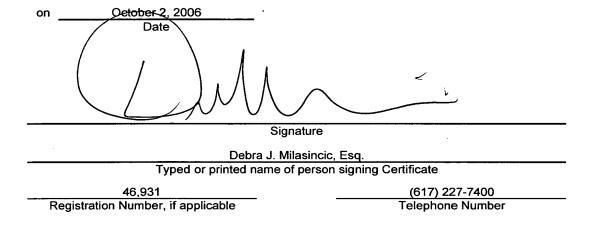
Application No. 09/041,994

Attorney Docket No.: UMM-026

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